78/5



P#14

1645

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/445,289B

DATE: 04/12/2002 TIME: 15:10:19

Input Set : A:\seqlistcorrected.txt

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SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

ENTERED

```
(i) APPLICANT: Mukamolova, Galina V. et al.
            (ii) TITLE OF INVENTION: Bacterial Pheromones and Uses Therefor
      7
                                                             RECEIVED

APR 2 2 2002

TECH CENTER 1600/2900
           (iii) NUMBER OF SEQUENCES: 59
      9
            (iv) CORRESPONDENCE ADDRESS:
     11
                   (A) ADDRESSEE: LAHIVE & COCKFIELD, LLP
     12
                   (B) STREET: 28 State Street
     1.3
     14
                   (C) CITY: Boston
     15
                   (D) STATE: Massachusetts
                   (E) COUNTRY: USA
                   (F) ZIP: 02109-1875
     17
             (V) COMPUTER READABLE FORM:
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     20
                   (A) MEDIUM TYPE: Floppy disk
                   (B) COMPUTER: IBM PC compatible
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                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     22
     23
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     25
            (vi) CURRENT APPLICATION DATA:
C--> 26
                   (A) APPLICATION NUMBER: US/09/445,289B
C--> 27
                   (B) FILING DATE: 11-May-2000
C--> 37
           (vii) PRIOR APPLICATION DATA:
     30
                   (A) APPLICATION NUMBER: PCT/GB98/01619
                   (B) FILING DATE: 03-MAY-1998
     31
                   (A) APPLICATION NUMBER: GB 9711389.8
     34
     35
                   (B) FILING DATE: 04-JUN-1997
                   (A) APPLICATION NUMBER: GB 9811221.2
     38
     39
                   (B) FILING DATE: 27-MAY-1998
     41
          (viii) ATTORNEY/AGENT INFORMATION:
     42
                   (A) NAME: Lauro, Peter C.
     4.3
                   (B) REGISTRATION NUMBER: 32,360
                   (C) REFERENCE/DOCKET NUMBER: FHW-051US
     44
            (ix) TELECOMMUNICATION INFORMATION:
     46
                   (A) TELEPHONE: (617) 227-7400
     47
                   (B) TELEFAX: (617) 742-4214
     48
     50
        (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     52
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                   (A) LENGTH: 362 amino acids
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                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
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            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
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Output Set: N:\CRF3\04122002\1445289B.raw

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70	Val	Glu	Glu	Asn	Gly	Phe	Ser	Val	Asp	Asp	Arg	Asp	Asp	Leu	Tyr	Pro
71		50					55					60				
73	Ala	Ala	Gly	Val	Gln	Val	His	Asp	Ala	Asp	Thr	Ile	Val	Leu	Arg	Arg
74	65					70					75					80
76	Ser	Arg	Pro	Leu	Gln	Ile	Ser	Leu	Asp	Gly	His	Asp	Ala	Lys	Gln	Val
77		•			85					90					95	
79	Trp	Thr	Thr	Ala	Ser	Thr	Val	Asp	Glu	Ala	Leu	Ala	Gln	Leu	Ala	Met
80				100					105					110		
82	Thr	Asp	Thr	Ala	Pro	Ala	Ala	Ala	Ser	Arg	Ala	Ser	Arg	Val	Pro	Leu
83			115					120					125			
85	Ser	Gly	Met	Ala	Leu	Pro	Val	Val	Ser	Ala	Lys	Thr	Val	Gln	Leu	Asn
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91	Gly	Leu	Leu	Ser	Ala	Ala	Gly	Val	Pro	Leu	Ļeu	Gln	Ser	Asp	His	Val
92					165					170					175	
94	Val	Pro			Thr	Ala	Pro	Ile		Glu	Gly	Met	Gln		Gln	Val
95				180					185					190		
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98			195			_	_	200					205			
100	Asn			Arg	[Va]	L Glu	-		Glu	ı Met	. Asr			Arg	Glu	ı Val
101		210		_			215		_,		_	220				
103			Asp	Pro	GTZ			GTZ	r Thi	GIR	_		. Thr	Pne	A La	Val
104	225		**- 1			230		m1	- 01-		235		1			240
106	Ата	GIU	vaı	ASI	_		. GIU	ITNI	. GTZ			Pro) var	ATa		val
107	37- 1	17- 1	mh	. D	245					250		. 17-1	a 1	mb	255	
109	val	vaı	THE			i HIS	GIU	I AI			. Arg	vaı	. СІУ		_	Pro
110 112	C1	mhw	01.	260		. D.m.c	. 17-1	T1.	265			. т1 а		270		
113	GLY	1111	275		. PIC	PIC) Vai	280	_	о Сту	ser	TTE	285	_	AIC	Ile
115	λla	C1 v			ב 1 ג	. C1s	, Cls			· λl=	т16	λαη			λer	Gly
116	Ald	290		GIU	ATC	ı Gıy	295		1 111	, ATO	TIE	300		GIY	ASI	. Сту
118	ጥላታ			Glu	. Val	Glr			. Glr	. G1v	r Thr			λla	λer	Gly
119	305		GLY	GLY	Val	310		. ASE	, 611	LGLY	315	_	GIU	ALU	. ASI	320
121			Ara	ጥህነ	· 11a			. Ala	Agr	Ten			· Ara	Glu	Gli	Gln
122	Ory	Dea	mrg	- 7 -	325		, nr	nic	. not	330			nry	GIU	335	
124	Tle	Ala	Va 1	Αla			Thr	Arc	r T.e.			เดิง	Tro	Glv		Trp
125			,	340					345	_	011	. 017		350		- +-P
127	Pro	Val	Cvs			Arc	r Ala	Glv			7					
128			355				,	360		3	,					
130 (2)	INFO	RMAT			SEO	ID N	10: 2									
132		SEQ														
133	` '						ino		ls							
134						no ac		· — -								
135						line										
139	(xi)							EO I	D NO): 2:						

Input Set : A:\seqlistcorrected.txt
Output Set: N:\CRF3\04122002\1445289B.raw

141 142		Met 1	Pro	Val	Gly	Trp	Leu	Trp	Arg	Ala	Arg 10	Thr	Ala	Lys	Gly	Thr 15	Thr
144 145		_	Lys	Asn	Ala 20	Arg	Thr	Thr	Leu	Ile 25		Ala	Ala	Ile	Ala 30	Gly	Thr
147 148		Leu	Val	Thr		Ser	Pro	Ala	Gly 40		Ala	Asn	Ala	Asp		Ala	Gly
150 151		Leu	Asp 50		Asn	Ala	Ala	Ala 55		Pro	Asp	Ala	Val		Phe	Asp	Pro
153 154		Asn 65		Pro	Pro	Ala	Pro 70		Ala	Ala	Pro	Val 75		Thr	Pro	Pro	Ala 80
156 157			Glu	Asp	Ala	Gly 85	Phe	Asp	Pro	Asn	Leu 90	Pro	Pro	Pro	Leu	Ala 95	Pro
159 160		Asp	Phe	Leu	Ser 100	Pro	Pro	Ala	Glu	Glu 105	Ala	Pro	Pro	Val	Pro 110	Val	Ala
162 163		Tyr	Ser	Val 115		Trp	Asp	Ala	Ile 120	Ala	Gln	Cys	Glu	Ser 125	Gly	Gly	Asn
165 166		Trp	Ser 130	Ile	Asn	Thr	Gly	Asn 135	Gly	Tyr	Tyr	Gly	Gly 140	Leu	Arg	Phe	Thr
168 169		Ala 145	Gly	Thr	Trp	Arg	Ala 150	Asn	Gly	Gly	Ser	Gly 155	Ser	Ala	Ala	Asn	Ala 160
171 172		Ser	Arg	Glu	Glu	Gln 165	Ile	Arg	Val	Ala	Glu 170	Asn	Val	Leu	Arg	Ser 175	Gln
174 175		Gly	Ile	Arg	Ala 180	Trp	Pro	Val	Cys	Gly 185	Arg	Arg	Gly				
177	(2)	INFO	RMAT:	ION I	FOR S	SEQ :	(D NC)): 3	:								
177 179	(2)				FOR S												
179	(2)		SEQU	JENCI	E CH	ARAC	ERIS	STIC	3:	3							•
	(2)		SEQUAL (A)	JENCI) LEI		ARAC: : 174	ERIS Lami	STIC: ino a	3:	3							
179 180	(2)		SEQUAL (A)	JENCI) LEI) TYI	E CHA NGTH PE: 8	ARAC: 174	TERIS lami o aci	STIC: ino a id	3:	3							
179 180 181 182	(2)	(i)	SEQUAL (B)	JENCI) LEI) TYI) TOI	E CHANGTH PE: 6	ARACI : 174 amino GY: 1	TERIS Lami aci	STIC: ino a id ar	3: acida		: 3:						
179 180 181		(i) (xi)	SEQUENT (A)	JENCI) LEI) TYI) TOI JENCI	E CHA NGTH PE: 6 POLOG E DES	ARAC: 174 amino GY: 1	TERIS ami aci lines	STIC: ino a id ar N: Si	S: acids EQ II	ои с		Ser	Ser	Ile	Ile	Val	Ala
179 180 181 182 186		(i) (xi)	SEQUENT (A)	JENCI) LEI) TYI) TOI JENCI	E CHA NGTH PE: 6 POLOG E DES	ARAC: 174 amino GY: 1	TERIS ami aci lines	STIC: ino a id ar N: Si	S: acids EQ II	ои с		Ser	Ser	Ile	Ile	Val 15	Ala
179 180 181 182 186 188		(i) (xi) Met 1	SEQUENT (A) (B) (D) SEQUENT (B)	JENCI) LEI) TYI) TOI JENCI Glu	E CHANGTH PE: 6 POLOGE DES	ARAC: 174 amino GY: 3 SCRII Tyr 5	TERIS ami aci lines TION Arg	STIC: ino a id ar N: SI Lys	S: acids EQ II Leu	O NO Thr	Thr 10						
179 180 181 182 186 188 189		(i) (xi) Met 1 Lys	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (B) SEQUENCE (B) SET	JENCI) LEI) TYI) TOI JENCI Glu	E CHANGTH PE: 6 POLOGE DES Ser Phe 20	ARACI amino GY: 5 GCRII Tyr 5 Thr	TERIS I ami D aci Linea PTION Arg	STICS ino a id ar N: SI Lys	S: acids EQ II Leu Met	NO Thr Leu 25	Thr 10 Asp	Gly	Ser	Ile	Ala 30	15	Ala
179 180 181 182 186 188 189 191 192		(i) (xi) Met 1 Lys Gly	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (B) SEQUENCE (B) SET	JENCH LENCH TYPH TOPH JENCH Glu Thr Ala 35	E CHANGTH PE: 6 POLOGE DES Ser Phe 20 Ser	ARACT ARACT AMING BY: 1 BCRII Tyr 5 Thr	TERIS I ami D aci Linea PTION Arg Gly Ala	ETICS ino a id ar N: SI Lys Ala	EQ II Leu Met Asp	NO Thr Leu 25 Ser	Thr 10 Asp Glu	Gly Trp	Ser Asp	Ile Gln 45	Ala 30 Val	15 Leu	Ala Arg
179 180 181 182 186 188 189 191 192 194 195		(i) (xi) Met 1 Lys Gly Cys	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (JENCI LEM TYI TOI JENCI Glu Thr Ala 35 Ser	E CHANGTH PE: 6 POLOGE DES Ser Phe 20 Ser Gly	ARACT : 174 amino GY: D SCRII Tyr 5 Thr Pro	TERIS I ami o aci linea PTION Arg Gly Ala Asn	STICS ino a id ar N: SI Lys Ala Thr Trp 55	EQ II Leu Met Asp 40 Ser	D NO Thr Leu 25 Ser	Thr 10 Asp Glu Asn	Gly Trp Thr	Ser Asp Gly 60	Ile Gln 45 Asn	Ala 30 Val Gly	15 Leu Ala	Ala Arg Leu
179 180 181 182 186 188 189 191 192 194 195 197		(i) (xi) Met 1 Lys Gly Cys	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (JENCI LEM TYI TOI JENCI Glu Thr Ala 35 Ser	E CHANGTH PE: 6 POLOGE DES Ser Phe 20 Ser Gly	ARACT : 174 amino GY: D SCRII Tyr 5 Thr Pro	TERIS I ami o aci linea PTION Arg Gly Ala Asn	STICS ino a id ar N: SI Lys Ala Thr Trp 55	EQ II Leu Met Asp 40 Ser	D NO Thr Leu 25 Ser	Thr 10 Asp Glu Asn	Gly Trp Thr	Ser Asp Gly 60	Ile Gln 45 Asn	Ala 30 Val Gly	15 Leu Ala Tyr	Ala Arg Leu
179 180 181 182 186 188 189 191 192 194 195 197 198 200		(i) (xi) Met 1 Lys Gly Cys Gly 65	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (JENCI LEN TYI TOI JENCI Glu Thr Ala 35 Ser Leu	E CHANGTH PE: 6 POLOGE DES Ser Phe 20 Ser Gly Gln	ARACT : 174 amino GY: 1 SCRII Tyr 5 Thr Pro Gly	TERIS I ami o aci linea PTION Arg Gly Ala Asn Ser 70	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln	EQ II Leu Met Asp 40 Ser	D NO Thr Leu 25 Ser Ile Thr	Thr 10 Asp Glu Asn Trp	Gly Trp Thr Ala 75	Ser Asp Gly 60 Ser	Ile Gln 45 Asn	Ala 30 Val Gly	15 Leu Ala Tyr	Ala Arg Leu Gly 80
179 180 181 182 186 188 189 191 192 194 195 197 198 200 201		(i) (xi) Met 1 Lys Gly Cys Gly 65	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (JENCI LEN TYI TOI JENCI Glu Thr Ala 35 Ser Leu	E CHANGTH PE: 6 POLOGE DES Ser Phe 20 Ser Gly Gln	ARACT : 174 amino GY: 1 SCRII Tyr 5 Thr Pro Gly	TERIS I ami o aci linea PTION Arg Gly Ala Asn Ser 70	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln	EQ II Leu Met Asp 40 Ser	D NO Thr Leu 25 Ser Ile Thr	Thr 10 Asp Glu Asn Trp	Gly Trp Thr Ala 75	Ser Asp Gly 60 Ser	Ile Gln 45 Asn	Ala 30 Val Gly	15 Leu Ala Tyr	Ala Arg Leu Gly 80
179 180 181 182 186 188 189 191 192 194 195 197 198 200 201 203		(i) (xi) Met 1 Lys Gly Cys Gly 65 Glu	SEQUENCE (A) (B) (D) SEQUENCE (B) SET ILE Gln Glu 50 Gly Tyr	JENCI LEN TYN TON JENCI Glu Thr Ala 35 Ser Leu Ala	E CHANGTH PE: 6 POLOGE E DES Ser Phe 20 Ser Gly Gln Pro	ARACCE 174 amino GY: 5 CRIII Tyr 5 Thr Pro Gly Phe Ser 85	TERIS I ami D aci Linea PTION Arg Gly Ala Asn Ser 70 Ala	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln Gln	EQ II Leu Met Asp 40 Ser Gly Leu	D NO Thr Leu 25 Ser Ile Thr	Thr 10 Asp Glu Asn Trp Thr 90	Gly Trp Thr Ala 75 Arg	Ser Asp Gly 60 Ser Glu	Ile Gln 45 Asn His	Ala 30 Val Gly Gly	15 Leu Ala Tyr Gly Ile	Ala Arg Leu Gly 80 Ala
179 180 181 182 186 188 189 191 192 194 195 197 198 200 201 203 204 206 207		(i) (xi) Met 1 Lys Gly Cys Gly 65 Glu Val	SEQUENCE (A) (B) (D) SEQUENCE (B) SET Ile Gln Glu 50 Gly Tyr Ala	JENCI LEN TYI TOI JENCI Glu Thr Ala 35 Ser Leu Ala	E CHANGTH PE: 6 POLOGE E DES Ser Phe 20 Ser Gly Gln Pro Arg 100	ARACCE 174 amino GY: 5 CRIII Tyr 5 Thr Pro Gly Phe Ser 85 Val	TERIS I ami D aci Linea PTION Arg Gly Ala Asn Ser 70 Ala Leu	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln Gln Ala	EQ II Leu Met Asp 40 Ser Gly Leu	D NO Thr Leu 25 Ser Ile Thr Ala Gln 105	Thr 10 Asp Glu Asn Trp Thr 90 Gly	Gly Trp Thr Ala 75 Arg	Ser Asp Gly 60 Ser Glu Gly	Ile Gln 45 Asn His Gln Ala	Ala 30 val Gly Gly Gln Trp 110	15 Leu Ala Tyr Gly Ile 95 Pro	Ala Arg Leu Gly 80 Ala Ala
179 180 181 182 186 188 189 191 192 194 195 197 198 200 201 203 204 206 207 209	(2)	(i) (xi) Met 1 Lys Gly Cys Gly 65 Glu Val	SEQUENCE (A) (B) (D) SEQUENCE (B) SET Ile Gln Glu 50 Gly Tyr Ala	JENCI LEN TYI TOI JENCI Glu Thr Ala 35 Ser Leu Ala	E CHANGTH PE: 6 POLOGE E DES Ser Phe 20 Ser Gly Gln Pro Arg 100	ARACCE 174 amino GY: 5 CRIII Tyr 5 Thr Pro Gly Phe Ser 85 Val	TERIS I ami D aci Linea PTION Arg Gly Ala Asn Ser 70 Ala Leu	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln Gln Ala	EQ III Leu Met Asp 40 Ser Gly Leu Thr	D NO Thr Leu 25 Ser Ile Thr Ala Gln 105	Thr 10 Asp Glu Asn Trp Thr 90 Gly	Gly Trp Thr Ala 75 Arg	Ser Asp Gly 60 Ser Glu Gly	Ile Gln 45 Asn His Gln Ala	Ala 30 val Gly Gly Gln Trp 110	15 Leu Ala Tyr Gly Ile 95	Ala Arg Leu Gly 80 Ala Ala
179 180 181 182 186 188 189 191 192 194 195 197 198 200 201 203 204 206 207 209 210	(2)	(i) (xi) Met 1 Lys Gly Cys Gly 65 Glu Val Cys	SEQUE (A) (B) (D) SEQUE SET Ile Gln Glu 50 Gly Tyr Ala Gly	JENCI LEN TYI TOI JENCI Glu Thr Ala 35 Ser Leu Ala Glu His 115	E CHANGTH PE: 6 POLOGE E DES Ser Phe 20 Ser Gly Gln Pro Arg 100 Gly	ARACCE 174 ARACCE 174 ARACCE 174 ARACCE 175	TERIS I ami D aci Linea PTION Arg Gly Ala Asn Ser 70 Ala Leu Ser	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln Gln Ala Gly	EQ II Leu Met Asp 40 Ser Gly Leu Thr	D NO Thr Leu 25 Ser Ile Thr Ala Gln 105 Ser	Thr 10 Asp Glu Asn Trp Thr 90 Gly Leu	Gly Trp Thr Ala 75 Arg Ser Gln	Ser Asp Gly 60 Ser Glu Gly Gly	Ile Gln 45 Asn His Gln Ala Val 125	Ala 30 Val Gly Gly Gln Trp 110 Leu	15 Leu Ala Tyr Gly Ile 95 Pro	Ala Arg Leu Gly 80 Ala Ala Ala
179 180 181 182 186 188 189 191 192 194 195 197 198 200 201 203 204 206 207 209 210 212	(2)	(i) (xi) Met 1 Lys Gly Cys Gly 65 Glu Val Cys	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (JENCI LEN TYI TOI JENCI Glu Thr Ala 35 Ser Leu Ala Glu His 115	E CHANGTH PE: 6 POLOGE E DES Ser Phe 20 Ser Gly Gln Pro Arg 100 Gly	ARACCE 174 ARACCE 174 ARACCE 174 ARACCE 175	TERIS I ami D aci Linea PTION Arg Gly Ala Asn Ser 70 Ala Leu Ser	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln Gln Ala Gly Ile	EQ II Leu Met Asp 40 Ser Gly Leu Thr	D NO Thr Leu 25 Ser Ile Thr Ala Gln 105 Ser	Thr 10 Asp Glu Asn Trp Thr 90 Gly Leu	Gly Trp Thr Ala 75 Arg Ser Gln	Ser Asp Gly 60 Ser Glu Gly Glu Ala	Ile Gln 45 Asn His Gln Ala Val 125	Ala 30 Val Gly Gly Gln Trp 110 Leu	15 Leu Ala Tyr Gly Ile 95 Pro	Ala Arg Leu Gly 80 Ala Ala Ala
179 180 181 182 186 188 189 191 192 194 195 197 198 200 201 203 204 206 207 209 210	(2)	(i) (xi) Met 1 Lys Gly Cys Gly 65 Glu Val Cys Gly	SEQUENCE (A) (B) (D) SEQUENCE (B) SEQUENCE (JENCH JENCH TYPH TOH JENCH Glu Thr Ala 35 Ser Leu Ala Glu His 115 Gly	E CHANGTH PE: 6 POLOGE DES Ser Phe 20 Ser Gly Gln Pro Arg 100 Gly Ala	ARACT : 174 amino GY: 1 SCRII Tyr 5 Thr Pro Gly Phe Ser 85 Val Leu Pro	ERIST AME AND ALA ASD ALA LEU SET	STICS ino a id ar N: SI Lys Ala Thr Trp 55 Gln Gln Ala Gly Ile 135	EQ II Leu Met Asp 40 Ser Gly Leu Thr Pro 120 Asn	D NO Thr Leu 25 Ser Ile Thr Ala Gln 105 Ser Gly	Thr 10 Asp Glu Asn Trp Thr 90 Gly Leu Ala	Gly Trp Thr Ala 75 Arg Ser Gln Pro	Ser Asp Gly 60 Ser Glu Gly Glu Ala 140	Ile Gln 45 Asn His Gln Ala Val 125 Pro	Ala 30 Val Gly Gly Gln Trp 110 Leu Leu	15 Leu Ala Tyr Gly Ile 95 Pro	Ala Arg Leu Gly 80 Ala Ala Ala Pro

Input Set : A:\seqlistcorrected.txt
Output Set: N:\CRF3\04122002\I445289B.raw

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218		Pro	Pro	Thr	Pro	Gly	Asp	Val	Pro	Ser	Pro	Leu	Ala	Arg	Pro		
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221	(2)	INFO	RMAT	ION I	FOR S	SEQ :	ID NO	0: 4	:								
223		(i)	SEQ	JENCI	E CHA	ARAC:	reri:	STICS	3:								
224			(A)) LEI	NGTH:	: 407	7 am:	ino a	acids	3							
225			(B)	TYI)	?E: a	amino	o ac	id									
226			(D)	(D) TOPOLOGY: linear													
230		(xi)	SEQ	JENCI	E DES	SCRII	OITS	N: SI	EQ II	ON C	: 4:						
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238		Ala	Ala	Gln	Ala	Thr	Ala	Ala	Thr	Asp	Gly	Glu	\mathtt{Trp}	Asp	Gln	Val	Ala
239				35					40					45			
241		Arg	_	Glu	Ser	Gly	Gly		Trp	Ser	Ile	Asn		Gly	Asn	Gly	Tyr
242			50				_	55					60				-: -
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245		65			_ •	_	70			_		75 ~	_				80
247		GLY	Glu	Phe	Ala		Ser	Ala	GIn	Leu		Ser	Arg	Glu	GIn		IIe
248				-1		85		_		1	90	~ 1		a 3		95	
250		Ата	vaı	GIĀ		Arg	vaı	Leu	АТа		GIN	GIY	Arg	Gly		Trp	Pro
251		17- 1		a 1	100	a 1	T	0	7	105	mh	D	3	a 1	110	T 0	Dwo
253		var	Cys		Arg	GIY	Leu	ser		Ald	THE	Pro	Arg	Glu	Val	ьeu	PIO
254		71-	Com	115	7 1 n	Wot	7 00	7 1-	120	T 011) an	71-	. ה ב	125	37-1	7 0 0	C1
256 257		Ala	130	ніа	нта	мес	ASP	135	PIO	Leu	АЗР	нта	140	Ala	Val	ASII	GLY
259				Ala	Pro	Leu	Ala		Pro	Pro	Ala	Asp		Ala	Pro	Pro	Val
260		145					150					155					160
262			Leu	Ala	Ala	Asn	Asp	Leu	Pro	Ala	Pro	Leu	Gly	Glu	Pro	Leu	Pro
263						165	-				170		_			175	
265		Ala	Ala	Pro	Ala	Asp	Pro	Ala	Pro	Pro	Ala	Asp	Leu	Ala	Pro	Pro	Ala
266					180					185					190		
268		Pro	Ala	Asp	Val	Ala	Pro	Pro	Val	Glu	Leu	Ala	Val	Asn	Asp	Leu	\mathtt{Pro}
269				195					200					205			
271		Ala		Leu	Gly	Glu	Pro		Pro	Ala	Ala	Pro		Asp	Pro	Ala	Pro
272			210					215					220	_			_
274			Ala	Asp	Leu	Ala		Pro	Ala	Pro	Ala		Leu	Ala	Pro	Pro	Ala
275		225				_	230		_		_	235		_			240
277		Pro	Ala	Asp	Leu		Pro	Pro	Ala	Pro		Asp	Leu	Ala	Pro		Val
278			_			245	_	_	_		250	_			_	255	
280		GLu	Leu	Ala		Asn	Asp	Leu	Pro		Pro	Leu	GLY	Glu		Leu	Pro
281				D	260	a 3	T	37-	D	265	3 7 -	3	T	A 7 -	270	A 7 -	0
283		ATA	АТа		АТа	GLU	ьeu	ата		Pro	ата	Asp	ьeu	Ala	Pro	ΑΙα	ser
284		77-	3	275	7 T -	D	D	7 J -	280	7. 7	7	T	71.	285	D	71 -	Dro
286		ATG	290	ьeu	АТа	PLO	PLO	A1a 295	PLO	HIG	ASP	ьeu	300	Pro	PLO	ATG	Pro
287 289		71 ~		T 011	λ Ι~	Dro	Dro		Dro	71-	7 ~~	T 0		Dro	Dro	λla	λla
209		305	GIU	ьец	HIG	PIO	310	MId	PIO	wid	nsp	315	HIG	Pro	FIO	vIq	320
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Input Set: A:\seqlistcorrected.txt
Output Set: N:\CRF3\04122002\1445289B.raw

Val Asn Glu Gln Thr Ala Pro Gly Asp Gln Pro Ala Thr Ala Pro Gly 325 330 335 335 335 335 335 335 335 335 335 335 335 335 335 345 345 345 355 360 365 365 365 365 365 365 365 360 365 365 360 365 365 360 365 365 360 365 365 360 365	292		Val	Asn	Glu	Gln	Thr	Ala	Pro	Glv	Asp	Gln	Pro	Ala	Thr	Ala	Pro	Gly
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